

FcγRIV (E8I7C) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P	M	Endogenous	30-40	Rabbit IgG	#A0A0B4J1G0	246256

Product Usage Information**Application**

Western Blotting
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:100 - 1:400

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

FcγRIV (E8I7C) Rabbit mAb recognizes endogenous levels of total mouse FcγRIV protein. This antibody does not cross-react with mouse FcγRIA, FcγRIIA, or FcγRIIB. Non-specific staining was observed in adipose tissue by immunohistochemistry.

Source / Purification

Monoclonal antibody is produced by immunizing animals with mouse FcγRIV recombinant protein.

Background

FcγRIV is an activating Fcγ receptor present in mice but not humans (2). Binding of Fc receptors to IgG, immune complexes, and opsonized particles results in immune cell activation and effector responses (2). FcγRIV is expressed by myeloid cells and binds to IgG2a and IgG2b, but not to IgG1 or IgG3 (1). FcγRIV signals through ITAM-containing FcRγ (2).

Background References

1. Nimmerjahn, F. et al. (2005) *Immunity* 23, 41-51.
2. Guillems, M. et al. (2014) *Nat Rev Immunol* 14, 94-108.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

M: Mouse

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